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ABSTRACT

The purpose of this study was to examine college grades of students, transfer and native, to determine the relationship between grades and transfer status, sex, college division, and major field of study, and their interaction to determine if these variables were related to student achievement. The study focused on the two institutional characteristics: division and major field, and on the joint relationship of variables. The subjects of the study were 128 randomly selected students attending the State University of New York at Oswego. Transfer students were defined as those who had completed more than 30 hours at another institution, while native students were defined as those who had completed less than six semester hours at another institution. The relationships between the independent and dependent variables were analyzed by means of a completely randomized 2X2X2X2X factorial of variance. The results indicated that non-science majors had a significantly higher GPA than did science majors, and that there was a statistically significant interaction between transfer status and the division enrolled: transfer students did better in the Division of Professional Studies, while the native did better in the Division of Arts and Sciences. (AF)



THE TRANSFER STUDENT: AN INSTITUTIONAL VARIABLE IN THE ANALYSIS OF JUNIOR YEAR COLLEGE MARKS

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August 3, 1970



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The Transfer Student: an Institutional Variable in the Analysis of Junior Year College Marks

Transfer students have become an increasing and persistent problem for the four-year college and university. Trent and Medsker (1968) have indicated that more than one-third of a national sample of students who entered college in 1959 changed institutions at least once. Medsker (1960) further indicated that more than four out of every ten students who attended community colleges had successfully transferred to four-year institutions. In view of the rapidly increasing number of community colleges and their growing population of students, as well as the increasing mobility of college students in four-year institutions, these institutions must make plans to deal with a new upper-division population.

Community colleges have a stake in the transfer situation. While fouryear college and university administrators have begun to perceive the community
college as a necessary adjunct to the state education system and as a means of
relieving the ever growing admissions pressure, the community college sees its
reputation and status in the community closely tied to the success of its transfer students. If its transfer students are not accepted for admission or if they
do not achieve adequate college marks and eventual graduation, the community
college's sources of local support are likely to diminish. (Blocker, Plummer,
and Richardson, 1965) On an institutional basis, the two-year college has a large
stake in the smooth assimilation of the transfer student into the four-year college
and university.

Even if the community college transfer student was not a major factor in the transfer process, the four-year college or university would have to face the problems created by student mobility. Many students change institutions in the course of their college career. Schell (1970) has pointed out that almost fifty percent of the students voluntarily withdrawing from a state college indicate their plans to transfer to another institution. Many others plan to withdraw for

limited periods of time to solve personal or family problems and then to seek admission to another institution. The mobility of students in consistent with the vocational and geographic mobility of their parents. (Jeneks and Riesman, 1968) This new mobility has forced colleges and universities to consider new patterns of admissions, new upper-division curricula, and new approaches to orientation.

Wrenn (1968) challenged the four-year institutions to:

Provide orientation and adjustment services for transfer students that are equal in quality and extensiveness to those provided for freshmen.
. . Transfer students. . . are perceived as juniors, or sophomores as the case may be and expected to be as institutionally and academically knowledgeable as native juniors. Of course, they are not; they are freshmen in every sense of the word . . . (p. 161)

The literature abounds with recent studies that attempt to shed light on the transfer process and the relationships between the characteristics of the successful transfer students and their less successful counterparts. Young (1964) and Lunneborg and Lunneborg (1967) have indicated that the community college grade. point-average is a less effective predictor of transfer success than is a combination of high school average and standardized test results. Lunneborg and Lunneborg (1967) also attempted to determine the effect of the community college characterists on the grade-point-average of transfer students. Hills (1965) reviewed the literature to determine the differences in achievement between transfer students and native students and concluded that no consistent differences were established. Other studies (Trent and Medsker, 1968) have focused on patterns of flow and attrition rates and have reached similar conclusions. Finally studies have been made of the sociological characteristics of transfer students (Anthony, 1964) and personality characteristics of transfer students. (Trent and Medsker, 1965) While these studies have provided valuable information in the development of the screening function of admissions, the variables studied are of little use in the development of orientation and adjustment programs.



The purpose of this study was to examine the college marks of students, transfer and native, to determine the relationship between marks and transfer status, sex, college division, and major field of study and their interaction in order to determine if these variables were related to student achievement. This study tended to focus on two institutional characteristics, division and major field, and to provide data on the joint relationship of variables.

METHOD

One hundred and twenty-eight junior students attending the State University of New York, College of Arts and Sciences at Oswego were randomly selected from the official roster of the College for the spring 1969 semester. Eight students were selected to represent each of the sixteen possible combinations of the four independent variables. The semester grade-point-average for each of these full-time students was then obtained from the official records of the College.

The independent variables (transfer status, sex, division, and field of study)
were selected because of their apparent relationship to the achievement of students,
their reliability and accessibility, and their potential impact on the campus
community.

Transfer students were defined as those who had completed thirty or more semester hours at another institution. Native students were defined as those who had completed less than six semester hours at another institution.

Students in the Division of Arts and Sciences were defined as those who had indicated this option at the spring semester registration. Students who were in the Division of Professional Studies were defined as those who had indicated their placement in elementary, secondary, or industrial arts education at the registration for the spring semester.

Students majoring in the field of science were those who indicated that their

(Arts and Science) or concentration (Professional Studies) as astronomy;

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RESULTS

The relationship becomes, the independent variables and the grade-point-average of students at the State University College at Occase are presented in Table 1.



TABLE 1
Analysis of Variance of Grade-Point-Averages
of Junious for the Spring 1969 Semester
by Transfer Status, Sex, Division,
and Major Field

SOURCE	SS	d£	130	F	MZ
A Transfer status	0.0996	2	0.0996	0.26	. 00
B Sex	1.1269	ž,	1.1259	2,89	.01
C Division	0.0661	ž.	0.0661	0.17	,00
D Major	1.9577	1	1.9577	5.03*	.03
A X B	0.0429	1	0.0429	0.11	เวอ
A % C	1,8745	Ī	1.8745	4.81*	.(3)
A X D	0.2088	1	0.2088	0.54	. Ot
B X C	0.0410	ï	0.0410	0.11	.00
BXD	0.2168	1	0.2168	0.55	.00
C X D	1,4175	1	1.4175	3.64	.02
AXBXC	0.5370	1	0.5370	1,38	.00
AKBKD	0.0671	1	0.0671	0.17	.00
AXCXD	0.5370	1.	0.5370	1,38	.00
BKCKD	0,0382	Ĭ.	0.0382	0.10	,00°
AXBXCXD	0.0660	1	0.0360	0.17	103
Vithin	43.6083	11.2	0,3894		
Total	51.9045	127	الله منظمة المنظمينية والمنظمة المنظمة	antica ya kiri, kirib waddini mish cinii kiribb wadi ma wuyak	nd ay i bayeer it geografin rifter and

* p / 0.05

Non-science majors had a significantly higher grade-point-average than did science majors (mean GPA's of 2.73 and 2.48 respectively). This difference was independent of the other variables and accounted for three percent of the total variance of spring 1969 semester marks for juniors.

There was a statistically significant interaction between the transfer status and the division in which they were encolled. TABLE 2 presents the mean grade-point-average for the four groups involved.



Takth 12 Mean Grode-Point-Liverage by Transfer Status and Distation

	Transfer	Native
Arts and Sciences	2,48	2.77
Professional Studies	2.67	2.47

There does indicate that the effect of transferring is different for atudents in the Division of Arts and Sciences than it is for students in the Division of Professional Studies. Transfer students do better than their paties counterparts in the Division of Professional Studies, but their roles are reversed in Arts and Sciences.

While they did not reach statistically significant levels, there were some factors that accounted for some proportion of the total variance of student marks. An interaction between major field and division accounted for two percent of the variance and sex accounted for one percent of the variance. Both of these effects were unrelated to the transfer status of students.

In essence, the independent variables selected for this study accounted for nine percent of the variance in the grade-point-average of the students in the sample.

DISCUSSION

These data indicate that the institutional variables do have some effect on the college marks of students. In this instance the selection of a Division made a considerable difference in the achievement of transfer students and their native counterparts. These data do not supply any insight into the reasons that these differences exist, but they are indicative of the fact that transfer stud-



ents. These differences are probably not generalized? serves all parts of the institution, but are indicative of special problems and strengths of transfer students.

It is interesting to note that the differences between science majors and nou science majors appear to be unrelated to the transfer status of the students involved. It would not have been surprising to discover that achievement in the sciences and transfer status was related.

COMPLUS TONS

On the basis of this study it would seem reasonable to conclude that:

- 1. Generalizable statements about the achievement differences between transfer and native students are, at best, tenuous.
- Institutional variables do effect the achievement of transfer students.
- Centain institutional variables have the same effect on transfer students as they do on native students.
- 4. Orientation and adjustment programs might fruitfully concentrate some of their efforts on helping the transfer student to adjust to the varying demands of the Divisions.
- 5. Further studies should be carried out to determine the effect of other institutional variables on the achievement of transfer students with special attention paid to the interaction of transfer status with these variables.

SUMMARY

One hundred and twenty-eight students were randomly selected according to their transfer status, sex, division, and field of study. The marks they had earned during the spring semester of their junior year were analyzed to determine the effect of each factor and the interaction of the factors. Statistically significant differences were found between the marks of science majors and non-science majors. A significant interaction between transfer status and division was also observed.



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